

Integrating Turn-Key Industrial Automation and Digital Information Solutions



Control System Integration Overview

Whether your operation requires a new control system, a control system upgrade, or a control system enhancement, rely on Engineering Specialists for your next project. We'll work with you to provide the best solution that fits your needs and budget.

Control Systems

Your facility has a lot to say. Are you listening?

Align your devices, machines, equipment, and business systems with your long-term goals and objectives.

Make your business more competitive and flexible in our fast-moving markets, increase profitability, and prepare your business for the future. With years of diverse industry experience and our knowledgeable team of engineers, Engineering Specialists will provide you with control systems to enable you to achieve your goals and business objectives.



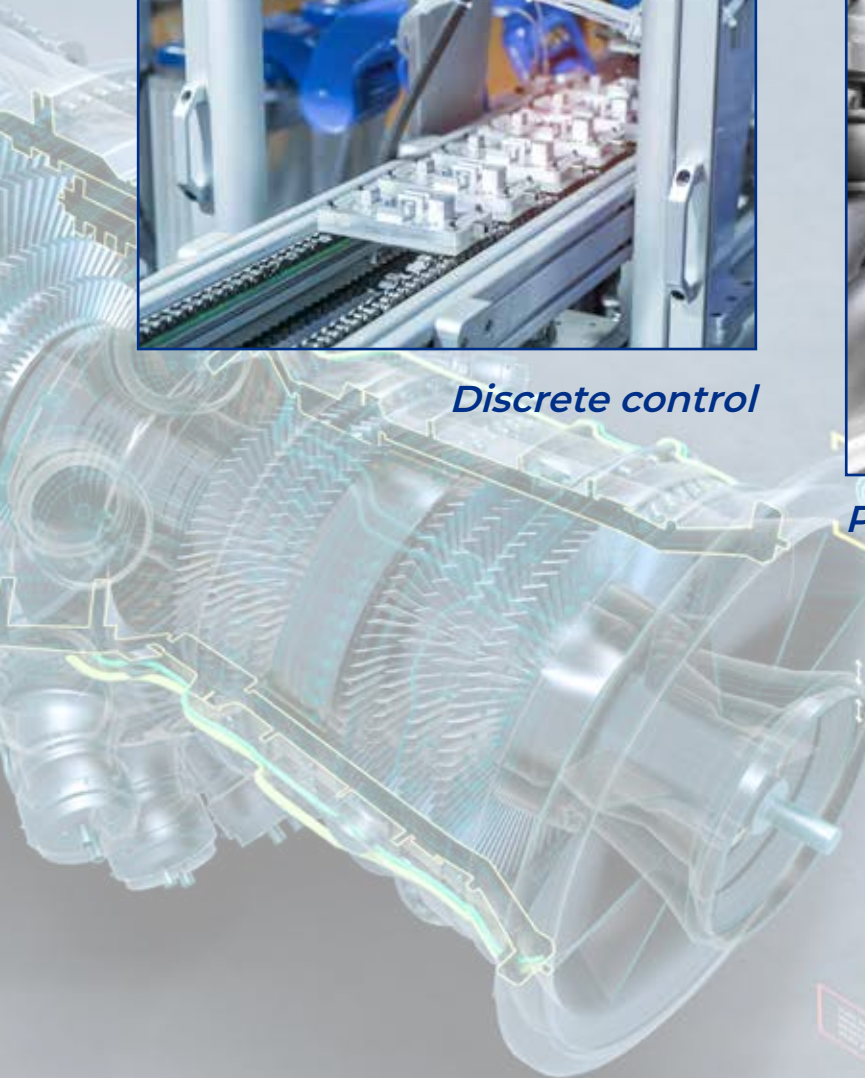
Enabling your facility for Smart Manufacturing



Discrete control



Process control



Full plant automation

Single machine



Control System Upgrades



Before



After

Avoid obsolescence and upgrade to the latest technology for sustainability

An outdated control system can be one of the reasons for declining performance and unexpected downtime.

As control systems age, they become more difficult to source parts for and maintain. Putting off an upgrade may save money in the short term but ultimately may cost you more in the long term. Upgrading legacy components with new components creates a more stable system foundation, thus improving your machine's performance.

Advantages to modernizing your legacy system

- ▶ Reduce unexpected downtime
- ▶ Enhance access to information
- ▶ Improve system flexibility
- ▶ Improve operator training
- ▶ Decrease system troubleshooting time
- ▶ Increase system security
- ▶ Improve throughput and efficiencies
- ▶ Enable remote access to system

Ensure your business is prepared for the future

Rely on the experts at Engineering Specialists for help in achieving your goals. Our team will manage the upgrade project from beginning to end. We'll perform a comprehensive review of your system and listen to your unique business and application requirements. We'll work with you and your team on minimizing downtime during the conversion and ultimately maximize productivity.



Enhancements provide access to new technologies while improving operational performance

Today facilities are collecting more data with the help of new and advanced technologies. This data allows for more flexible product delivery capabilities, optimizing quality and throughput consistency, and driving a higher level of operational safety and environmental compliance. Drive your business performance by adding a Control System Enhancement and leveraging additional data and business information.

Common Control System Enhancements

- **PLCs/HMIs** make technologies easier to use while withstanding harsh environments. Adding control to your equipment provides greater efficiencies and safety measures with features that offer a more fast-paced return on investment (ROI).
- **Robots/Cobots** maximize productivity and throughput while reducing risks of injury along with direct labor costs.
- **Sensors** provide multiple benefits, including predictive and preventive maintenance. They also ensure that data

is transmitted quickly and with increased accuracy improving control and enhancing equipment health.

- **Recipe and Parameter Management Solutions** provide efficiency, accuracy, and the ability to improve process controls.
- **Vision/Inspection Systems** for quality improvement by identifying product defects and errors in manufacturing processes.
- **Barcode/RFID Systems** to improve track and trace, real-time information, and reporting capabilities.
- **Performance Changes/Additions** allow you to be more flexible and adapt to your customer's ever-changing needs.

Don't get left behind by the competition

Extend your manufacturing flexibility by partnering with Engineering Specialists, a certified control system integrator. Our team leverages decades of experience, the latest technologies, and innovative thinking to meet your specific needs and challenges.



PLC/HMI enhancements



Performance enhancements



Sensor/Device enhancements



Why Choose Us?

Long-term client relationships based on trust, integrity, and confidence. Here are more reasons why clients choose us...



Turn-Key Solutions

We have in-house control over all aspects of the project including design, build, project management, certifications, installation, and start-up.



Certified Integrator

We are honored to be a CSIA Certified System Integrator since 2009. We've earned level 1 status which is CSIA's highest certification.



Solution Focused

We support a variety of partners and suppliers, which allows us to provide the best solution for your application and requirements.



Experienced Team

Our tenured team of Engineers, Electricians, and Technical staff have diverse technology and application expertise that is second to none.



20,567+

SUCCESSFUL
PROJECTS



150+

TEAM
MEMBERS



15+

AVERAGE YEARS
ENGINEERING EXPERIENCE



48+

YEARS
HISTORY

Our Control System Integration Capabilities



Definition &
Layout
Consulting



Functional
& Software
Specification



Control System
Design



PLC
Systems



Operator
Interface
Systems



High-Speed
Multi-Axis Motion
Systems



Variable
Frequency Drive
(VFD) Systems



Vision & Robotic
Systems



Test &
Measurement
Systems



Safety
Systems



High-Speed
Data Acquisition
Systems



Hazardous
Location
Systems



Plant Floor
Networking



Redundant
Systems



Material
Handling

Partner with us.

We'll work with you to provide a solution
that fits your needs and budget.



Let's Connect.

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